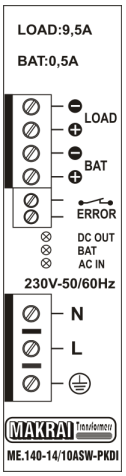
ME.140-14/10ASW-PKDI BUFFER INTELIGENT POWER SUPPLY UNIT WITH BATTERY INSERTION OPTION USER'S MANUAL

ATTENTION! Touching of mains terminal after power connection is dangerous! Use of protective earthing is compulsory for safety purposes!



The connecting information is in the label of the power supply. Use appropriate wire size on the **LOAD** connection.

1. ***Usage of auxiliary power supply-charger:(automatic recognition function)***

Connect the device to the mains only when the battery is connected earlier. The charger makes battery test after every 20 minutes. In case of error a switched off signal is generated through connector **ERROR**. 12V/7 Ah battery can be accommodated into the box.Connect mains to connector **AC IN 230 V 50/60 Hz.** Connect output **BAT** to battery with wire and output **LOAD** to load. The output voltage is 13,8 V on both. Loading current is max. 9,5 A while charging current is 0,5 A. Max. 12V/7Ah battery can be insert into the housing. Pay attention to the proper polarity!

2. ***Charging time:*** 8 hours for 12V/7Ah battery.

3. ***Connection of battery:*** red **+**; black -

The meaning of the LED signals. In power supply mode the battery signals do not work.

LED signal state			LED not light	Error message	Delay
Mains OK:	**AC**	continuous	No power:	**ERROR** yes	20 s
DC output OK:	**DC**	continuous	No DC output:	**ERROR** yes	20 s
Battery OK:	**BAT**	continuous	Battery is flat:	**ERROR** yes	20 s
Battery change:	**BAT**	flashing		**ERROR** yes	20 s
System overheating:	**AC DC BAT**	flashing		**ERROR** yes	0 s
Power on self test:	**AC DC BAT + Fan**	if exists		**ERROR** no	2 s
Dynamic battery test	**20 s**				

4. ***Charging procedure***

The charging procedure of the battery is automatic (I-U characteristic), no intervention needed. In case of power-cut the battery deep discharge and break down is prevented by switching off loading at 10,5 V decreased battery voltage. After returning of power the charging process starts. If the charging voltage reaches 12,5 V on the battery the loading is reconnected. This solution is working with safe and avoiding possible trouble.

Specifications:
Input voltage: 230 VAC ±10% 50/60 Hz
Output voltage: 12 to 13,8 VDC (adjustable)
Error contact loading max:30V, 100mA
Max. loading current: 9,5 A
Class of insulation: I.
Degree of protection: IP 20
Ambient temperature limit range: -10 °C …+50 °C
Dimensions (WxHxD mm): 215 x 265 x 70+8

Built-in protections against:
Overloading, short-circuit, overheating, overvoltage, deep discharge, changed polarity at battery (by fuse)